

## The CIRM Human Pluripotent Stem Cell Biorepository – A Resource for Safe Storage and Distribution of High Quality iPSCs

### Grant Award Details

The CIRM Human Pluripotent Stem Cell Biorepository – A Resource for Safe Storage and Distribution of High Quality iPSCs

**Grant Type:** hPSC Repository

**Grant Number:** IR1-06600

**Project Objective:** Create hPSC bio-repository for world wide distribution of hiPSC lines generated under RFA 12-03, and for hiPSC and hESC provided by California investigators

**Investigator:**

<b>Name:</b>	Deborah Requesens
<b>Institution:</b>	Coriell Institute for Medical Research
<b>Type:</b>	PI

**Disease Focus:** Developmental Disorders, Heart Disease, Infectious Disease, Alzheimer's Disease, Neurological Disorders, Autism, Respiratory Disorders, Vision Loss, Liver Disease, Epilepsy

**Human Stem Cell Use:** iPS Cell

**Cell Line Generation:** iPS Cell

**Award Value:** \$9,942,175

**Status:** Active

### Progress Reports

**Reporting Period:** Year 1

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**Reporting Period:** Year 2

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**Reporting Period:** Year 3

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Reporting Period: Year 4

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## Grant Application Details

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<b>Application Title:</b>	The CIRM Human Pluripotent Stem Cell Biorepository – A Resource for Safe Storage and Distribution of High Quality iPSCs
<b>Public Abstract:</b>	Critical to the long term success of the CIRM iPSC Initiative of generating and ensuring the availability of high quality disease-specific human iPSC lines is the establishment and successful operation of a biorepository with proven methods for quality control, safe storage and capabilities for worldwide distribution of high quality, highly-characterized iPSCs. Specifically the biorepository will be responsible for receipt, expansion, quality characterization, safe storage and distribution of human pluripotent stem cells generated by the CIRM stem cell initiative. This biobanking resource will ensure the availability of the highest quality hiPSC resources for researchers to use in disease modeling, target discovery and drug discovery and development for prevalent, genetically complex diseases.
<b>Statement of Benefit to California:</b>	The generation of induced pluripotent stem cells (iPSCs) from patients and subsequently, the ability to differentiate these iPSCs into disease-relevant cell types holds great promise in facilitating the "disease-in-a-dish" approach for studying our understanding of the pathological mechanisms of human disease. iPSCs have already proven to be a useful model for several monogenic diseases such as Parkinson's, Fragile X Syndrome, Schizophrenia, Spinal Muscular Atrophy, and inherited metabolic diseases such as $\alpha$ 1-antitrypsin deficiency, familial hypercholesterolemia, and glycogen storage disease. In addition, the differentiated cells obtained from iPSCs represent a renewable, disease-relevant cell model for high-throughput drug screening and toxicology/safety assessment which will ultimately lead to the successful development of new therapeutic agents. iPSCs also hold great hope for advancing the use of live cells as therapies for correcting the physiological manifestations caused by disease or injury.

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